



## Department of Energy

Idaho Operations Office  
850 Energy Drive  
Idaho Falls, Idaho 83401-1563

April 24, 2001

Mr. Wayne Pierre, Team Leader  
Environmental Cleanup Office  
U.S. Environmental Protection Agency  
Region X  
1200 Sixth Avenue  
Seattle, Washington 98101

Mr. Dean Nygard, Site Remediation Program Manager  
Idaho Department of Environmental Quality  
Waste Management and Remediation Program  
1410 N. Hilton  
Boise, Idaho 83706

**SUBJECT: Transmittal of the Draft ICDF 30% Design Package and Draft ICDF Title II Design Package (EM-ER-01-075)**

Dear Mr. Pierre and Mr. Nygard:

Enclosed are the *Draft INEEL CERCLA Disposal Facility (ICDF) 30% Design Package* and *Draft ICDF Title II Design Package*. The 30% design package consists of the documents comprising the Draft 30% Design for the ICDF landfill and evaporation ponds. In order to implement the schedule for the ICDF project as contained in the *Final Conceptual Design Report for the INEEL CERCLA Disposal Facility and Evaporation Pond* (DOE/ID-10806, November 2000), the design information and quality assurance aspects necessary for the early dig of the landfill and evaporation ponds have been included. This information is contained in the ICDF Title II Design package and includes the document dealing with the excavation of the landfill and evaporation pond along with the documents necessary for constructing and evaluating the test pad for the clay liner materials prior to completion of the Remedial Design/Remedial Action Work Plan. These design packages are for a landfill with a volume of 510,000 yds<sup>3</sup>.

The enclosed two design packages (contents listed below), as shown below, are being submitted to meet the requirements of the Federal Facility Agreement and Consent Order (FFA/CO). However, the enclosed documents are Draft Predecisional and not subject to release (see Jeff Snook letter, *Release of Predecisional FFA/CO Documents*, EM-ER-01-059, dated April 20, 2001).

### **ICDF — Title II Design Package Volume 1**

- INEEL CERCLA Disposal Facility Final Design Excavation and Test Pad - Master Table of Documents (Draft Title II), DOE/ID-10854
- INEEL CERCLA Disposal Facility Construction Quality Assurance Plan for Excavation and Constructing and Testing of Clay Liner and Test Pad, DOE/ID-1084
- INEEL CERCLA Disposal Facility Construction Waste Management Plan, DOE/ID-10855

- Air Space Volume Calculations, EDF-ER-265
- Storm Water Drainage Calculations, EDF-ER-270
- Soil Amendment Study, EDF-ER-272
- Storm Water Pollution Prevention Plan (Construction), Form 450.16
- Technical Specifications for the INEEL CERCLA Disposal Facility Landfill and Evaporation Pond, SPC-1475
- Health and Safety Plan for Construction of the INEEL CERCLA Disposal Facility and Evaporation Pond, INEEL/EXT-2000-1424

**Volume 2**

- INEEL CERCLA Disposal Facility Excavation and Test Pad – Drawings (Draft Title II)

**ICDF — 30% Design Package**

**Volume 1**

- INEEL CERCLA Disposal Facility - Master Table of Documents (Draft Title I), DOE/ID-10847
- INEEL CERCLA Disposal Facility Remedial Design/Remedial Action (RD/RA) Work Plan/Title II Design — Annotated Outline, DOE/ID-10848
- INEEL CERCLA Disposal Facility Construction Quality Assurance Plan for the INEEL CERCLA Disposal Facility — Annotated Outline, DOE/ID-10851
- INEEL CERCLA Disposal Facility Complex Landfill and Evaporation Pond Operations and Maintenance Plan — Annotated Outline, DOE/ID-10852
- Draft Technical Specifications for the INEEL CERCLA Disposal Facility, SPC-1476

**Volume 2**

- INEEL CERCLA Disposal Facility Design Inventory, EDF-ER-264
- Hydrologic Modeling of Final Cover, EDF-ER-279
- Leachate/Contaminant Reduction Time Study, EDF-ER-274
- Fate and Transport Modeling Results and Summary Report, EDF-ER-275
- Permeable Reactive Barrier Decision Analysis, EDF-ER-273
- Modifications to the Monitoring System and Installation Plan for Operable Unit 3-13, Group 5, Snake River Plain Aquifer, DOE/ID-10783
- Modifications to Long Term Monitoring Plan for Operable Unit 3-13, Group 5, Snake River Plain Aquifer, DOE/ID-10783

**Volume 3**

- Evaluation of Geotechnical Investigations Required to Complete Design & Construction, EDF-ER-276
- Seismic Evaluation of Landfill and Evaporation Pond, EDF-ER-282
- Slope Stability Assessments, ER-EDF-268
- Subsurface Consolidation Calculations, EDF-ER-266
- Landfill Compaction/Subsidence Study, EDF-ER-267
- Waste-Soil Design Ratio Calculations, EDF-ER-277
- Waste Placement Plan, EDF-ER-286
- Liner and Final Cover Long Term Performance Evaluation and Final Cover Life Cycle Expectation, EDF-ER-281
- Leachate Generation Study, EDF-ER-269

- Landfill Leachate Collection System Design Analysis, EDF-ER-280
- Liner/Leachate Compatibility Study, EDF-ER-278
- Evaporation Pond Sizing with Water Balance and Make-up Water Calculations, EDF-ER-271

**Volume 4**

- Waste Acceptance Criteria for ICDF Landfill, DOE/ID-10865
- Waste Acceptance Criteria for ICDF Evaporation Pond, DOE/ID-10866


**Volume 5**

- INEEL CERCLA Disposal Facility – Drawings (Draft Title I)

In order to expedite Draft 30% Design Package and Draft Title II Design Package comment resolution and incorporation, review comments should be provided in an electronic format. By using an electronic copy transfer, an increase in the efficiency of comment resolution and subsequent incorporation is expected.

The FFA/CO review time for the attached documents, secondary documents, is 30 days, but if you have significant comments please let us know within 20 days. By notifying DOE-ID of any significant issues prior to the completion of the review period, these issues can be addressed. This will reduce the impact to the schedule. If you have any questions, please call Talley Jenkins at (208) 526-4978 or myself at (208) 526-4392.

Sincerely,



Kathleen E. Hain, Manager  
Environmental Restoration Program

**Enclosure**

cc: M. English, IDEQ, Technical Services Group, 1410 N. Hilton, Boise, Idaho 83706 (4)  
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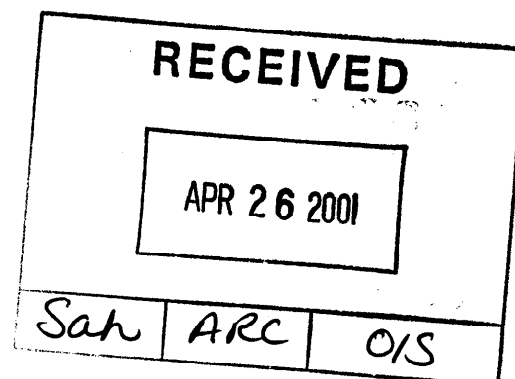
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CONCURRENCE:

EM \_\_\_\_\_

RECORD NOTES:

1. This letter was prepared to transmit Draft CDF 30% Design Package and Draft ICDF Title II Design Package to the State and EPA.
2. This letter was prepared based on discussions between T. Jenkins and K. Hain (EM/ER). *rwj 4/23/01*
3. This letter/memo closes OATS number N/A.
4. The attached correspondence has no relation to the Naval Nuclear Propulsion Program. Naval Reactors concurrence is not required.



TWJenkins (EM/ER): thorkley, 6-1952, 4/23/01, talley075

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INITIAL mmo DATE 7/17/01